

BENJAMIN A. BERMAN
NASA Ames Research Center/San Jose State University
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EDUCATION

Harvard University, Cambridge, Massachusetts
Kennedy School of Government Executive Management Programs
Effective Decision Making and Executive Influence, completed July 1999.

Harvard College, Cambridge, Massachusetts
Received the A. B. degree summa cum laude in Economics, 1979. Elected to Phi Beta Kappa, 1978. Awarded Allyn A. Young prize for honors thesis, *Airline Deregulation and Small Communities: The Demand for Short-haul, Commuter Air Transportation*.

EXPERIENCE

Air Carrier Pilot (2/01 – present)
Continental Airlines dba United Airlines, Newark, New Jersey
Boeing 777 First Officer, and previously Boeing 737 Captain, Part 121 international and domestic service. Member of Human Factors and Merger Integration teams.

Principal Consultant (3/06 – present)
Berman Aviation Associates LLC, Montgomery Village, Maryland
Provide expert consulting and management for projects in aviation safety, flight operations, accident investigation, and medical/pharmaceutical safety.

Senior Research Associate, Human/Systems Integration Division (10/01 – present)
NASA Ames Research Center/San Jose State University, Moffett Field, California
Co-wrote *The Limits of Expertise*, a book about human vulnerabilities that affect flight crew performance in major air carrier accidents. Served as member of the National Research Council's Committee on the Effects of Commuting on Pilot Fatigue. Researching cockpit distractions, interruptions, and pilots' cognitive performance during line flights, and the sources and trapping of airline weight/performance data errors.

Director of Operations/Chief Pilot/Check Airman (1/07 – present)
K&R Aviation, LLC dba OpenAir, Rockville, Maryland
Administer proficiency checks for charter operator using Cirrus SR-22 aircraft.

Chief, Major Investigations Division (9/99 – 2/01)
National Transportation Safety Board, Washington, D.C.
Managed the investigative effort for U.S. air carrier accidents and the U.S. government's participation in foreign aviation accidents. Selected, hired, trained, and supervised the staff of investigators-in-charge, who direct teams of specialists from the NTSB, air carriers, manufacturers, labor unions, and the Federal Aviation Administration.

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EXPERIENCE (continued)

Chief, Operational Factors Division (1/98 – 9/99)

National Transportation Safety Board, Washington, D.C.

Managed a department of 12 professional staff comprising air carrier captains, air traffic controllers, and meteorologists. Oversaw the operational aspects of major aviation accident investigations. Responsible for the flight operations/human performance sections of several major reports, including the USAir flight 427 accident report. Selected, hired, and trained new operations and air traffic control staff. Concurrently served as the NTSB's operations specialist for the Boeing 737, performing flight simulator trials for accident analysis and re-enactments, and completed upset recovery program in the Variable Stability Learjet 25 aircraft in September 1999.

Senior Air Carrier Operations Investigator (12/95 – 12/97)

National Transportation Safety Board, Washington, D.C.

Chaired the Operational Factors Group in major air carrier accident investigations, including ValuJet flight 592 and USAir flight 427. Investigated the flight crew's performance and background; the air carrier's operational, training, and corporate performance; and the Federal Aviation Administration's safety oversight. Supervised the work of parties to the investigation from air carriers, pilots' associations, aircraft manufacturers, and government agencies. Resolved disputes and achieved consensus among parties. Wrote accident reports, analyzing the causes of the accident and developing recommendations for safety improvements. Testified and questioned witnesses at public meetings of the NTSB.

Safety Study Manager (10/90 – 12/95)

National Transportation Safety Board, Washington, D.C.

Managed two research projects: *Flight Crew Performance in 37 Major U.S. Air Carrier Accidents* and *Aviation Safety in Alaska*. Coordinated the efforts of investigators in the areas of flight operations, human performance, statistical analysis, airports, air traffic control, and meteorology. Wrote studies based on the research. Both studies were adopted and published by the Safety Board.

Air Transportation Consultant (5/92 – 7/93)

Benjamin A. Berman Associates, Washington, D.C.

The World Bank, Washington, D.C.

Analyzed airport privatization issues. Evaluated Jamaica's air transportation system.

European Bank for Reconstruction & Development, London

Forecast air travel demand for Russia, Ukraine, Kazakhstan, and Belarus. Evaluated airline industrial organization, aircraft operating economics, and airline safety.

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EXPERIENCE (continued)

Captain and Airline Flight Instructor (2/89 – 10/90)

Midway Commuter, Chicago, Illinois

Captain assigned to the Embraer 120 transport category turboprop and the Dornier 228 turboprop. Instructed captain and first officer candidates on both types using the airplane and flight simulator.

First Officer (5/87 – 1/89)

Midway Commuter and Midstate Airlines, Chicago, Illinois

Operated the Dornier 228 and Fairchild Metro III turboprops.

Charter Pilot and Flight Instructor (7/86 – 11/86)

Fitchburg Colonial Aviation, Fitchburg, Massachusetts

Operated the Cessna 401/402 and Cessna 182RG.

Principal Consultant (1985 – 1988)

Benjamin A. Berman Associates, Libertyville, Illinois

Completed projects for the U.S. President's Aviation Safety Commission, airlines, financial institutions, and airport authorities. Specialized in flight operations safety, airline strategic planning, project analysis, and business plan development.

Airline Manager (1979 – 1985)

Director, Market Planning

Midwest Express Airlines, Milwaukee, Wisconsin

Responsible for hub selection, route development, aircraft scheduling, pricing, and yield management for a startup jet airline. Created an expansion plan for the first 15 airplanes and regional feeder system that the airline followed successfully during its first 10 years.

Manager, Market Planning

Midstate Airlines, Stevens Point, Wisconsin

General Manager, Sentry Aviation Services

Responsible for aircraft scheduling and new market selection. Also, managed the airline's subsidiary fixed base operation, supervising 10 employees and the local airport, charter flight operation, flight school, and fuel facility.

Route Development Analyst

American Airlines, Dallas/Ft. Worth Airport, Texas

Selected new markets for entry during the initial period of airline deregulation.

PILOT CERTIFICATES

Airline Transport Pilot	9,265 total time
Type Ratings: B-777, B-737, EMB-120, DO-228	6,485 turbine multiengine
Flight Instructor, Airplane and Instrument	2,205 turbine multi PIC
Ground Instructor, Advanced and Instrument	600 actual instrument
First Class Medical Certificate	2,250 Boeing 737
	1,870 Boeing 777

PUBLICATIONS/PRESENTATIONS

National Research Council, Committee on the Effects of Commuting on Pilot Fatigue. *The Effects of Commuting on Pilot Fatigue*. Washington, DC, 2011 (Committee member and co-author).

with R. Key Dismukes, "Designing a Better Error Trap." *AeroSafety World*. Alexandria, VA: Flight Safety Foundation. July 2010.

with R. Key Dismukes, *Checklists and Monitoring in the Cockpit: Why Crucial Defenses Sometimes Fail*. NASA Technical Memorandum NASA/TM-2010-216396. Moffett Field, CA: Ames Research Center, July 2010.

"Professionalism: Role of the Captain." Presentation before U.S. National Transportation Safety Board, *Safety Forum on Pilot/Controller Professionalism*, May 19, 2010. Washington, DC.

with R. Key Dismukes, Ph.D. and Loukia Loukopoulos, Ph.D., *The Limits of Expertise: Rethinking the Role of Pilot Error in Airline Accidents*. Aldershot, U.K.: Ashgate Publishing Co., January, 2007.

with R. Key Dismukes, Ph.D., "Pressing the Approach," *Aviation Safety World*, Alexandria, VA: Flight Safety Foundation, December, 2006.

"Fatigue in the Cockpit," *USA Today*, July 27, 2006.

"Pilot Returns," *All Things Considered*, National Public Radio, broadcast April 19, 2005.

"New Day, New Airplane: Pilot Training for Emergency and Abnormal Situations," presentation at *Air Safety Forum 2004*, Air Line Pilots Association, August 19, 2004, Washington, DC.

with Valerie J. Gawron, R. Key Dismukes, and Jeffrey H. Peer, "New Airline Pilots May Not Receive Sufficient Training to Cope With Airplane Upsets," *Flight Safety Digest*. July-August 2003. Pp. 19-32.

PUBLICATIONS/PRESENTATIONS (continued)

“Mandatory Reporting in Commercial Aviation,” in *How Safe is Our Health Care System?*, Agency for Health Care Research and Quality, Boston, March 20-22, 2000.

“Flight Crew Performance in Accidents, Incidents, and Normal Flights,” *Proceedings of the Transportation Research Forum 37th Annual Meeting*, Chicago, October 19-21, 1995.

National Transportation Safety Board, *Aviation Safety in Alaska*, Washington, DC., 1995 (Principal author).

“Patterns in Flight Crew-Involved Accidents,” *Proceedings of the 5th CRM Industry Workshop*, Seattle, September 12-13, 1995.

“Flight Crew Performance in 37 Major U.S. Air Carrier Accidents,” *Proceedings of the 8th Symposium on Aviation Psychology*, Ohio State University, Columbus, April 27, 1995.

National Transportation Safety Board, *A Review of Flight Crew-Involved, Major Accidents of U.S. Air Carriers, 1978 through 1990*, Washington, Government Printing Office, 1994 (Principal author).

“FAA Safety Inspection Programs” and “General Aviation in the Air Traffic Control System,” in President's Aviation Safety Commission, *Final Report*, Washington, Government Printing Office, 1989.

with John R. Meyer, Clinton V. Oster, Jr., Ivor P. Morgan, and Diana L. Strassmann, *Airline Deregulation: The Early Experience*, Boston, Auburn House Publishing Co., 1981.